

**Minor Field of
Comprehensive
Examination**

Performance Modeling of Queueing Systems

Syllabus

Markov-type queueing systems. M/G/1, G/M/m, G/G/1 systems, derivation of their performance measures. Open and closed queueing networks, numerical procedures related their modeling. Network modeling tools.

Bibliography

1. **Bolch, G., Greiner, S., Trivedi, K.:** Queueing Networks and Markov Chains, J. Wiley, 1998, 2002
2. **Gross, D., Harris, C. :** Fundamentals of Queueing Theory, John Wiley, New York, 1985
3. **Daigle, J.N.:** Queueing Theory for Telecommunications, Addison-Wesley, 1992
4. **Lakatos, L., Szeidl, I., Telek, M.:** Introduction to Queueing Systems with Telecommunication Applications, Springer, New York, 2013